## (19) World Intellectual Property Organization International Burcau



## 

(43) International Publication Date 17 March 2005 (17.03.2005)

(10) International Publication Number WO 2005/024038 A2

- (51) International Patent Classification7: A61K 39/02, 39/102, 47/48
- C12P 19/04,
- (21) International Application Number:

PCT/NL2004/000627

(22) International Filing Date:

10 September 2004 (10.09.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

03077881.5

11 September 2003 (11.09.2003)

- (71) Applicant (for all designated States except US): NEDER-LANDS VACCININSTITUUT [NL/NL]; P.O. Box 457, NL-3720 AL Bilthoven (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): HAMIDI, Ahd [NL/NL]; Van Limburg Stierumstraat 14a, NL-2515 PE Den Haag (NL). BEURRET, Michel, FRANÇOIS [NL/NL]; Dorpsstraat 18, NL-3732 HJ DE Bilt (NL).
- (74) Agents: VAN WESTENBRUGGE, Andries et al.; Nederlandsch Octrooibureau, Scheveningseweg 82, P.O. Box 29720, NL-2502 LS The Hague (NL).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR PRODUCING POLYSACCHARIDE FOR CONJUGATE VACCINE

(57) Abstract: The present invention relates to a method for producing a polysaccharide and a conjugate vaccine comprising the polysaccharide produced according to the method of the invention. A characteristic step in the method according to the invention is that the pH of the culture medium is kept at a constant value with base or acid until adjustment with respectively base or acid is not possible anymore. Using the method of the invention, capsular polysaccharide may be obtained in a high yield in a relatively short time. The method is straightforward, reproducible and cost-effective.

2005/024038 A2